PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BP110549/TN	FOR FURTHER ACTION See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year) Priority date (day/month/year)							
PCT/FI2004/050176	24-11-2004							
		15-12-2003						
International Patent Classification (IPC) or national classification and IPC H01L23/60 // H05F3/02								
NOIL23/60 // NOSF3/02								
Applicant								
Nokia Corporation et al								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
3. This report is also accompanied by ANNEXES, comprising:								
a. (seut to the applicant	and to the International Russmi) a total of	shares as fallowers						
¶	sneets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which s	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes							
beyond the dis Supplemental	closure in the international application as file	ed, as indicated in item 4 of Box No. I and the						
D. [] (sent to the Internation	nal Bureau only) a total of (indicate type and	· · · · · · · · · · · · · · · · · · ·						
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications rela	ating to the following items:							
. Box No. I Basis of	the report							
Box No. II Priority	Box No. II Priority							
Box No. III Non-esta	blishment of opinion with regard to novelty,	inventive step and industrial applicability						
Box No. IV Lack of t								
Box No. V Reasoned								
Box No. VII Certain defects in the international application								
Box No. VIII Certain o								
Date of submission of the demand	Date of completion	of this report						
26-09-2005	07-11-200	07-11-2005						
Name and mailing address of the IPEA/SE	Authorized officer	Authorized officer						
Patent- och registreringsverket Box 5055								
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Facsimile No. +46 8 667 72 88	Telephone No. +4	6 8 782 25 00						

Form PC17IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/050176

Bo	x No. 1	Basis of the report					
i.	With	regard to the language, this report is based on:					
	\boxtimes	the international application in the language in which it was filed					
		a translation of the international application into					
		which is the language of a translation furnished for the purposes of:					
		international search (Rules 12.3(a) and 23.1(b))					
		publication of the international application (Rule 12.4(a))					
l		international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have bee furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not unnexed to this report):						
		the international application as originally filed/furnished					
		the description:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the claims:					
		pages as originally filed/furnished					
		pages* as amended (together with any statement) under Article 19 pages* received by this Authority on					
		pages* received by this Authority on					
	П	the drawings:					
		pages as originally filed/fumished					
		pages* received by this Authority on					
	_	pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		. the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
*	If item	4 applies, some or all of those sheets may be marked "superseded."					

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/050176

Box No. V	Reasoned statement a	inder Article lions support	35(2) with regard to novelty, inventive ing such statement	step or industrial applicability;
i. Statemen	nt			
Nove	cjù (N)	Claims Claims	1-15	YES NO
lnver	ntive step (IS)	Claims Claims	1-15	YES NO
Indu	strial applicability (IA)	Claims Claims	1-15	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 4796084 A D2: US 2001033478 A1 D3: JP 2001196638 A

The cited documents represent the general state of the art.

The invention defined in claims 1-15 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed semiconductor component. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-15 is novel and is considered to involve an inventive step. The invention is industrially applicable.

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